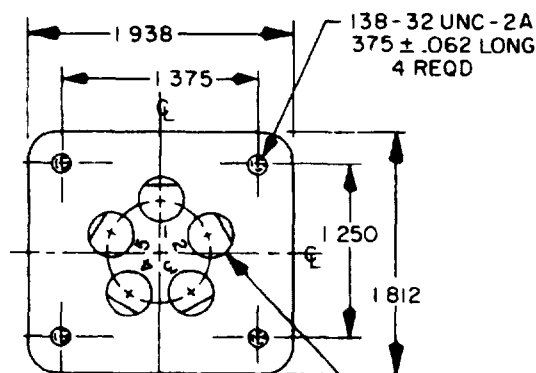


MILITARY SPECIFICATION SHEET

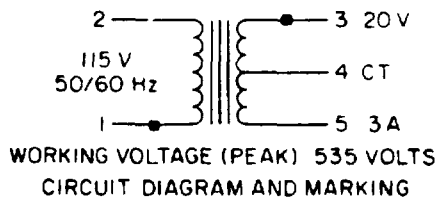
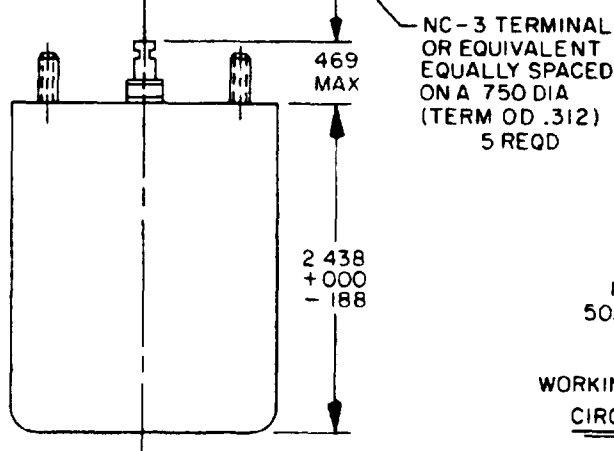
TRANSFORMER, POWER, STEP-DOWN, TF4S03EB

This specification is approved for use by all Departments and Agencies of the Department of Defense

The complete requirements for procuring the transformer described herein shall consist of this document and the latest issue of Specification MIL-T-27.



INCHES	MM
.016	41
.062	1.57
.125	3.18
.138	3.51
.188	4.78
.312	7.92
.375	9.52
.469	11.91
.750	19.05
1.250	31.75
1.375	34.92
1.812	46.02
1.938	49.23
2.438	61.93



NOTES

- 1 Dimensions are in inches
- 2 Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm
- 3 Unless otherwise specified, tolerance on overall case dimensions is +.000, -.125 inch
- 4 Tolerance on mounting dimensions is ± .016 inch
- 5 Marking shall be on the side of the case

FIGURE 1 Dimensions and configuration

MIL-T-27/154

REQUIREMENTS (When numbers in parentheses, i e , (1-2) are used, they indicate the winding and the extreme terminals of the winding)

Electrical ratings

Primary voltage (1-2) 115 volts rms, 50/60 Hz
VA 6
Secondary voltage (3-5) 20 volts rms ct
Secondary current (3-5) 0.3 amperes rms
Working voltage (peak) 535 volts

Design and construction

Dimensions and configuration See figure 1
Duty cycle Continuous
Case Metal encased
Terminals Solder terminal, NC-3 or equivalent.
Terminal height 0.469 inch, maximum
Weight 476 grams, maximum
Operating temperature range -55°C to +130°C.

Terminal strength MIL-STD-202, method 211, test condition A, 5.0 pounds and test condition E, 8.0 ounce-inches.

Dielectric withstanding voltage (at sea level) 1500 volts rms

Electrical characteristics

No load With 115 volts, 60 Hz across (1-2), current in (1-2) shall not exceed 75 mA and the power in (1-2) shall not exceed 1.0 watt.
Voltage across (3-5) 23.5 volts ± 3 percent
Rated load With 115 volts, 60 Hz across (1-2), the voltage across (3-5) shall be 20 volts ct ± 3 percent
DC resistance
(1-2) 150 ohms, maximum
(3-5) 7.5 ohms, maximum
Polarity Additive, with 2 and 3 connected

Temperature rise 40°C with 115 volts rms, 60 Hz across (1-2) at an ambient temperature of 90°C

Marking location See figure 1

Part number M27/154-01

Custodians

Army - EL
Navy - EC
Air Force - 85

Preparing activity

Army - EL

Agent

DLA - ES

Review activities

Army - MI, SG
Navy - SH, OS
Air Force - 11, 17, 99
DLA - ES

(Project 5950-0538-13)

User activities

Army - MU, WC, ME
Navy - MC, AS
Air Force - 19

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SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No 22-R255
<p>INSTRUCTIONS This sheet is to be filled out by personnel either Government or contractor involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.</p>		
SPECIFICATION MIL-T-27/154 TRANSFORMER, POWER, STEP-DOWN, TF4S03EB		
ORGANIZATION		
CITY AND STATE	CONTRACT NUMBER	
<p>MATERIAL PROCURED UNDER A</p> <p><input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT</p>		
<p>1 HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?</p> <p>A GIVE PARAGRAPH NUMBER AND WORDING</p>		
<p>B RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES</p>		
<p>2 COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID</p>		
<p>3 IS THE SPECIFICATION RESTRICTIVE?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?)</p>		
<p>4 REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers attach to form and place both in an envelope addressed to preparing activity.)</p>		
SUBMITTED BY (Printed or typed name and activity Optional)		DATE

DD FORM 1426
1 JAN 61

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED

ESC-PM 1068-68

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